

<!--StartFragment-->RESULT 5

AAD36478

ID AAD36478 standard; cDNA; 2409 BP.

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AC AAD36478;

XX

DT 21-AUG-2002 (first entry)

XX

DE Human phospholipase A2-like enzyme encoding cDNA #3.

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KW Human; phospholipase A2-like enzyme; PLA2; asthma; cancer; inflammation;
 KW cardiovascular disorder; central nervous system disease; CNS; diabetes;
 KW obesity; chronic obstructive pulmonary disease; overweight; anorexia;
 KW cachexia; wasting disorder; appetite modulation; eating disorder; stroke;
 KW bulimia; obesity; hypertension; type 2 diabetes; gall bladder disease;
 KW coronary artery disease; hyperlipidaemia; osteoarthritis; sleep apnoea;
 KW respiratory disorder; cancer; polycystic ovarian syndrome; pregnancy;
 KW thrombotic disease; menstrual irregularities; hirsutism; depression;
 KW gout; stress incontinence; gene therapy; cytostatic; cardiant; vulnerability;
 KW nootropic; Anticonvulsant; neuroleptic; tranquiliser; antiinfertility;
 KW analgesic; metabolic; enzyme; gene; ss.

XX

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 1..2406

FT /*tag= a

FT /product= "Human phospholipase A2-like enzyme"

FT /note= "CDS does not include start and stop codon"

FT /partial

XX

PN WO200231162-A2.

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PD 18-APR-2002.

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PF 09-OCT-2001; 2001WO-EP011642.

XX

PR 10-OCT-2000; 2000US-0238434P.

PR 27-DEC-2000; 2000US-0258051P.

PR 31-AUG-2001; 2001US-0315982P.

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PA (FARB) BAYER AG.

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PI Zhu Z;

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DR WPI; 2002-416866/44.

DR P-PSDB; AAE22843.

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PT New human phospholipase A2-like enzyme polypeptides for treating or
 PT preventing cancer, inflammation, and chronic obstructive pulmonary
 PT disease, diabetes, stroke, dementia and obesity.

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PS Claim 1; Fig 8; 164pp; English.

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CC The present invention relates to novel human phospholipase A2 (PLA2)-like
 CC enzyme polypeptides and their corresponding proteins. PLA2-like sequences
 CC are useful for treating phospholipase A2-like enzyme dysfunction related
 CC diseases such as asthma, cancer, inflammation, cardiovascular disorder,
 CC central nervous system (CNS) disease, diabetes, obesity and chronic
 CC obstructive pulmonary disease. They are useful for treating overweight,
 CC anorexia, cachexia, wasting disorders, appetite suppression, appetite

10/050,675

SEQ ID NO:8 alignment

Does not encode full SEQ ID NO:9

CC enhancement, increases or decreases in satiety, modulation of body weight
 CC and/or other eating disorders such as bulimia, obesity/overweight-
 CC associated comorbidities including hypertension, type 2 diabetes, stroke,
 CC coronary artery disease, hyperlipidaemia, gall bladder disease, gout,
 CC osteoarthritis, sleep apnoea and respiratory problems, endometrial,
 CC breast, prostate, colon cancer, thrombotic disease, polycystic ovarian
 CC syndrome, reduced fertility, complications of pregnancy, menstrual
 CC irregularities, hirsutism, stress incontinence and depression. Sequences
 CC of the invention are also used in gene therapy. The present sequence is
 CC human PLA2-like cDNA
 XX
 SQ

Sequence 2409 BP; 498 A; 760 C; 709 G; 442 T; 0 U; 0 Other;

Query Match 67.2%; Score 2409; DB 6; Length 2409;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2409; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	147	GAGGCTCTACCTGCTGGCAGCTCACAGTGAGGGTCTTGAGGCGCGGAACCTGCGCTGG	206
Db	1	GAGGCTCTACCTGCTGGCAGCTCACAGTGAGGGTCTTGAGGCGCGGAACCTGCGCTGG	60
Qy	207	GCTGACCTGTTGAGTGAGGCGCGACCCCTTACGTGATCTTACAGCTGTGACCGCACCTGGA	266
Db	61	GCTGACCTGTTGAGTGAGGCGCGACCCCTTACGTGATCTTACAGCTGTGACCGCACCTGGA	120
Qy	267	ATGAAGTTTAAGACCAAGACGCTACCGACACCAAGTATCCTGTGTGGAATGAGGCTTC	326
Db	121	ATGAAGTTTAAGACCAAGACGCTACCGACACCAAGTATCCTGTGTGGAATGAGGCTTC	180
Qy	327	CGTTTCCTTATCCAAAGTCAGGTCAAGAAATGTTCTGGAGCTTAGCATCTATGATGAGGAC	386
Db	181	CGTTTCCTTATCCAAAGTCAGGTCAAGAAATGTTCTGGAGCTTAGCATCTATGATGAGGAC	240
Qy	387	TCAGTCAAGGAGGATGACATCTGCTTCAAGGTTCTCTATGACATCTCAGAAGTCTCCCT	446
Db	241	TCAGTCAAGGAGGATGACATCTGCTTCAAGGTTCTCTATGACATCTCAGAAGTCTCCCT	300
Qy	447	GGCAAGCTGCTCCGGAACCTTCTCCAGAGTCCCAGGGAGAGGAGCTGGATGTG	506
Db	301	GGCAAGCTGCTCCGGAACCTTCTCCAGAGTCCCAGGGAGAGGAGCTGGATGTG	360
Qy	507	GAGTTCTGTGGAAGAAACGTCAGATCGCCAGAAACCTCATCACCACAAAGTCATT	566
Db	361	GAGTTCTGTGGAAGAAACGTCAGATCGCCAGAAACCTCATCACCACAAAGTCATT	420
Qy	567	GTGGCCGAGAGCTGTCATGCTGGATGTGATCTGGACAGCAGGGAGCACCCTGTG	626
Db	421	GTGGCCGAGAGCTGTCATGCTGGATGTGATCTGGACAGCAGGGAGCACCCTGTG	480
Qy	627	GTTGCAGATCAGGACAAGCTGGAGCTGGAGCTGGTCTGAAGGGTCTTATGAGGACACA	686
Db	481	GTTGCAGATCAGGACAAGCTGGAGCTGGAGCTGGTCTGAAGGGTCTTATGAGGACACA	540
Qy	687	CAGACATCCTTCTGGGCACAGCTCTGCCTTCGCTTCCATACATGGCAGCCCTAGAG	746
Db	541	CAGACATCCTTCTGGGCACAGCTCTGCCTTCGCTTCCATACATGGCAGCCCTAGAG	600
Qy	747	ACAGAGCTGAGCGGGCGCTGAGGAGCTCCAGAAGCAATGGCTGGAATGGGACAACCTCA	806
Db	601	ACAGAGCTGAGCGGGCGCTGAGGAGCTCCAGAAGCAATGGCTGGAATGGGACAACCTCA	660

Qy	807	GCTGGGTACCTCACTGTGCCCTGAGGCCCTTGACCATTGGGAAGGAGGTGACTATGGAT	866
Db	661	GCTGGGTACCTCACTGTGCCCTGAGGCCCTTGACCATTGGGAAGGAGGTGACTATGGAT	720
Qy	867	GTTCTGTCTCCAAATGCCCCAGGAGTGAGGCTGCAGCTCAAGGCAGAGGGCTGCCCTGAG	926
Db	721	GTTCTGTCTCCAAATGCCCCAGGAGTGAGGCTGCAGCTCAAGGCAGAGGGCTGCCCTGAG	780
Qy	927	GAGCTGGCGTGCACCTGGGCTTCAATCTCTGTGCAGAGGAGCAGGCCCTTCCTGAGCAGG	986
Db	781	GAGCTGGCGTGCACCTGGGCTTCAATCTCTGTGCAGAGGAGCAGGCCCTTCCTGAGCAGG	840
Qy	987	AGGAAGCAGGTGGTGGCCAAGGCCCTGAAGCAGGCCCTGCAGCTGGACAGAGACCTGCAG	1046
Db	841	AGGAAGCAGGTGGTGGCCAAGGCCCTGAAGCAGGCCCTGCAGCTGGACAGAGACCTGCAG	900
Qy	1047	GAGGATGAGGTACCCGTTGTGGGCATCATGGCCACAGGAGGAGTGCCCGGCCATGACC	1106
Db	901	GAGGATGAGGTACCCGTTGTGGGCATCATGGCCACAGGAGGAGTGCCCGGCCATGACC	960
Qy	1107	TCACTCTACGGCCACCTATTGGCCTTGCAAGCTGGGCCTCCTAGACTGTGTGACCTAC	1166
Db	961	TCACTCTACGGCCACCTATTGGCCTTGCAAGCTGGGCCTCCTAGACTGTGTGACCTAC	1020
Qy	1167	TCAGTGGCATCTCTGGCTCTACGTGGCAATGGCCACCTGTACGGGGACCCCTGAGTGG	1226
Db	1021	TCAGTGGCATCTCTGGCTCTACGTGGCAATGGCCACCTGTACGGGGACCCCTGAGTGG	1080
Qy	1227	TCGCAGAGGGACCTGGAGGGACCTATCAGATACGCCCGGAGCACCTGGCCAAGAGCAAG	1286
Db	1081	TCGCAGAGGGACCTGGAGGGACCTATCAGATACGCCCGGAGCACCTGGCCAAGAGCAAG	1140
Qy	1287	CTGGAGGTCTTTTCCCCAGAGCGCCTGGCGAGCTACCGCCGGAGCTGGAGCTGCGGGCT	1346
Db	1141	CTGGAGGTCTTTTCCCCAGAGCGCCTGGCGAGCTACCGCCGGAGCTGGAGCTGCGGGCT	1200
Qy	1347	GAGCAGGGCCACCCACGACCTTTGTGGACCTGTGGGCGCTAGTGTGGAGTCCATGCTG	1406
Db	1201	GAGCAGGGCCACCCACGACCTTTGTGGACCTGTGGGCGCTAGTGTGGAGTCCATGCTG	1260
Qy	1407	CACGGCCAGGTGATGGATCAGAAGCTGTGAGGACAGAGCGCCCTGGAACGGGGTCAG	1466
Db	1261	CACGGCCAGGTGATGGATCAGAAGCTGTGAGGACAGAGCGCCCTGGAACGGGGTCAG	1320
Qy	1467	AACCCCTGCCCCCTCACTTGAGCCTCAATGTCAAAGAGAACAACTCTGGAGACACTGGAC	1526
Db	1321	AACCCCTGCCCCCTCACTTGAGCCTCAATGTCAAAGAGAACAACTCTGGAGACACTGGAC	1380
Qy	1527	TTCAAGGAGTGGGTTGAGTTCTCCCCCTATGAGTTCGGTTTCTGAAAGTACGGGGCCTTC	1586
Db	1381	TTCAAGGAGTGGGTTGAGTTCTCCCCCTATGAGTTCGGTTTCTGAAAGTACGGGGCCTTC	1440
Qy	1587	GTCCTCTGAGCTCTTCGGCTCCGAGTTCCTCATGGGACGGCTGATGAGGAGGATCCCG	1646
Db	1441	GTCCTCTGAGCTCTTCGGCTCCGAGTTCCTCATGGGACGGCTGATGAGGAGGATCCCG	1500
Qy	1647	GAGCCCCGGATCTGCTTTCTGGAAGCCATCTGGAGCAACATTTTCTCCCTGAACCTGCTG	1706
Db	1501	GAGCCCCGGATCTGCTTTCTGGAAGCCATCTGGAGCAACATTTTCTCCCTGAACCTGCTG	1560
Qy	1707	GATGCCTGGTATGACCTACCAGTTCTGGGGAGTCTGGAACAGCACATCAAGGACAAG	1766

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Db      1561  |||||
1561  GATGCCTGGTATGACCTCACCAGTTCTGGGGAGTCCTGGAAACAGCACATCAAGGACAAG 1620
Qy      1767  ACCAGGAGCTTAGAGAAGGAGCCCTGACCACCTCGGGGACCTCCTCGCGGTGGAGGCC 1826
Db      1621  |||||
1621  ACCAGGAGCTTAGAGAAGGAGCCCTGACCACCTCGGGGACCTCCTCGCGGTGGAGGCC 1680
Qy      1827  TCGTGGCTGCAGCCAGGCACGGCGCTGGCCAGGCATTAAAGGCTTCCTGCACGGCAGG 1886
Db      1681  |||||
1681  TCGTGGCTGCAGCCAGGCACGGCGCTGGCCAGGCATTAAAGGCTTCCTGCACGGCAGG 1740
Qy      1887  CCCCTCCACCAGCGCAGCCCCAACTTCCTCCAGGGCCTCCAGCTGCACCAGGACTACTGT 1946
Db      1741  |||||
1741  CCCCTCCACCAGCGCAGCCCCAACTTCCTCCAGGGCCTCCAGCTGCACCAGGACTACTGT 1800
Qy      1947  AGCCACAAAGACTTCTCCACCTGGGCAGACTACCAGCTTGACTCCATGCCACGCAGCTG 2006
Db      1801  |||||
1801  AGCCACAAAGACTTCTCCACCTGGGCAGACTACCAGCTTGACTCCATGCCACGCAGCTG 1860
Qy      2007  ACCCCCAAGGAGCCCGGCTCTGCCTGGTGGACGCCGCTACTTCATCAACACCAGCTCT 2066
Db      1861  |||||
1861  ACCCCCAAGGAGCCCGGCTCTGCCTGGTGGACGCCGCTACTTCATCAACACCAGCTCT 1920
Qy      2067  CCCTCCATGTTCCGGCCAGGCCGCGAGGCTGGACCTCATCTCTCTCTCGACTACTCCCTA 2126
Db      1921  |||||
1921  CCCTCCATGTTCCGGCCAGGCCGCGAGGCTGGACCTCATCTCTCTCTCGACTACTCCCTA 1980
Qy      2127  TCTGCGCCCTTCGAGGCACTGCAGCAGACGGAGCTGTACTGCCGGGCCCGGGGGCTGCC 2186
Db      1981  |||||
1981  TCTGCGCCCTTCGAGGCACTGCAGCAGACGGAGCTGTACTGCCGGGCCCGGGGGCTGCC 2040
Qy      2187  TTCCCCCGGGTGGAACCCAGCCCTCAGGACCAGCACCAGCCAAGGGAATGCCACCTCTTC 2246
Db      2041  |||||
2041  TTCCCCCGGGTGGAACCCAGCCCTCAGGACCAGCACCAGCCAAGGGAATGCCACCTCTTC 2100
Qy      2247  TCAGACCCCGCCTGCCCCGAGGCCCGGATCCTGCTGCACCTTCCCGCTGGTCAATGCCTCC 2306
Db      2101  |||||
2101  TCAGACCCCGCCTGCCCCGAGGCCCGGATCCTGCTGCACCTTCCCGCTGGTCAATGCCTCC 2160
Qy      2307  TTCAAGGACCACTCAGCCCCGGGTGTCCAGCGCAGCCCGCAGAGCTCCAGGGTGGCCAA 2366
Db      2161  |||||
2161  TTCAAGGACCACTCAGCCCCGGGTGTCCAGCGCAGCCCGCAGAGCTCCAGGGTGGCCAA 2220
Qy      2367  GTGGATCTCACCGGGGCCACCTGCCCTACACCTGTCCAACATGACCTACAAGGAGGAA 2426
Db      2221  |||||
2221  GTGGATCTCACCGGGGCCACCTGCCCTACACCTGTCCAACATGACCTACAAGGAGGAA 2280
Qy      2427  GACTTCGAGCGCCTGCTGCGGCTCAGTGACTACAACGTGCAGACCAGCCAGGGTGCCATC 2486
Db      2281  |||||
2281  GACTTCGAGCGCCTGCTGCGGCTCAGTGACTACAACGTGCAGACCAGCCAGGGTGCCATC 2340
Qy      2487  CTGACGGCCCTGAGGACCGCGCTGAAGCACCGGACTCTAGAGGCGAGGGCTCCAAGGGCA 2546
Db      2341  |||||
2341  CTGACGGCCCTGAGGACCGCGCTGAAGCACCGGACTCTAGAGGCGAGGGCTCCAAGGGCA 2400
Qy      2547  CAGACCTGA 2555
Db      2401  |||||
2401  CAGACCTGA 2409
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